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Patent Number(s):

JP7289860-A [View](#)

Title:

Cleaning hollow fibre membrane modules - by air scrubbing and draining liq. under pressure

Patent Assignee Name(s) and Code(s):
TORAY IND INC (TORA)Derwent Primary Accession Number:
1998-015621 [96]

Abstract:

When cleaning hollow fibre membrane modules, following air scrubbing, the containers are drained of liq. under pressure, pref. 0.05-5 kgf/cm².

ADVANTAGE - Time needed for regular cleaning by air scrubbing, conducted after filtering liq. contg. fine particles and suspended solids, is reduced.

International Patent Classification:
B01D-063/00; B01D-063/02; B01D-065/02; B01D-071/42Derwent Class:
J01 (Separation including e.g. evaporation, crystallisation etc.)Derwent Manual Code(s):
J01-C03

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(71) Applicant :

TORAY IND INC

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(72) Inventor :

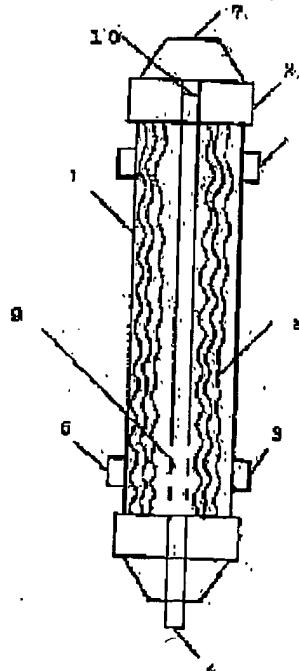
**NISHIMURA TETSUO
YAMAMURA HIROYUKI
SEKI TAKASHI**

(54) CLEANING METHOD OF HOLLOW FIBER MEMBRANE MODULE

(57) Abstract:

PURPOSE: To optimize the cleaning time, cleaning interval, and amt. of air for cleaning and to decrease the cleaning time by discharging water while the inside of the chamber is pressurized after air scrubbing is performed.

CONSTITUTION: When raw water is introduced through a raw liquid supply port 3 of a porous hollow fiber membrane module, the SS component and fine particles are separated by filtering with fine pores on the surface of the hollow fiber membrane 8 and only clear water permeates through the membrane and is discharged through an exit 7. When the filtering pressure is increased, the supply port 3 is closed and an air supply port 4 and a deaerating port 5 for cleaning are opened to perform air scrubbing so as to drop the deposited matter on the membrane by vibration. Then the deaerating port is closed so that the cleaning liquid in the chamber 1 is pressurized by the cleaning air into an pressurized state. Then, a discharge port 6 is opened to discharge water.



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